### 02096960 HAW RIVER NEAR BYNUM, NC--Continued

#### WATER-QUALITY RECORDS

PERIOD OF RECORD .-- Water years 1982-86, 1989 to current year.

PERIOD OF DAILY RECORD .--

SPECIFIC CONDUCTANCE: October 1981 to September 1984.

WATER TEMPERATURE: October 1981 to September 1984.

INSTRUMENTATION .-- Water-quality monitor from October 1981 to September 1984.

REMARKS .-- Station operated to define water quality as part of a six-county regional surface-water quality assessment.

COOPERATION.--Samples for October 1994 and April 1995 were collected by the North Carolina Department of Environment, Health, and Natural Resources. A GC/FID scan for trace organic compounds was performed on these samples by the U.S. Geological Survey Water Quality Lab. Results may be obtained from the District office in Raleigh.

EXTREMES FOR PERIOD OF DAILY RECORD .--

SPECIFIC CONDUCTANCE: Maximum, 514 microsiemens, Sept. 19, 1983; minimum, 46 microsiemens, Mar. 21, 1983.

WATER TEMPERATURE: Maximum, 35.0°C, July 21, 1983; minimum, 0.0°C, on several days during winter months in water years 1982 and 1984.

### WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	BENZENE O-DI- CHLORO- WATER UNFLTRD REC (UG/L) (34536)	ACE- NAPHTH- ENE TOTAL (UG/L) (34205)	ACE- NAPHTH- YLENE TOTAL (UG/L) (34200)	ANTHRA- CENE TOTAL (UG/L) (34220)	BENZI- DINE TOTAL (UG/L) (39120)
OCT 24 APR	1250	171	376	8.6	18.0	10.9	<5.00	<5.00	<5.00	<5.00	<40.0
27	1200	364	310	7.6	18.5	8.7					
DATE	BENZO A ANTHRAC ENE1,2- BENZANT HRACENE TOTAL (UG/L) (34526)	BENZO- A- PYRENE TOTAL (UG/L) (34247)	BENZO B FLUOR- AN- THENE TOTAL (UG/L) (34230)	BENZOGH I PERYL ENE1,12 -BENZOP ERYLENE TOTAL (UG/L) (34521)	BENZO K FLUOR- AN- THENE TOTAL (UG/L) (34242)	N-BUTYL BENZYL PHTHAL- ATE TOTAL (UG/L) (34292)	PARA- CHLORO- META CRESOL TOTAL (UG/L) (34452)	CHRY- SENE TOTAL (UG/L) (34320)	DI-N- BUTYL PHTHAL- ATE TOTAL (UG/L) (39110)	DI-N- OCTYL PHTHAL- ATE TOTAL (UG/L) (34596)	1,2,5,6 -DIBENZ -ANTHRA -CENE TOTAL (UG/L) (34556)
OCT 24	<10.0	<10.0	<10.0	<10.0	<10.0	<5.00	<30.0	<10.0	<5.00	<10.0	<10.0
APR 27											
	PHT A TC TC (UC	THYL ME THAL- PHT ATE A DTAL TO	THYL DIN THALOR TE CRE TAL TO	SOL ANT TAL TO (UG	TAL TO	OR- CHI NE BEN TAL TO	XA- CHI LORO- BU IZENE ADI OTAL TO	EXA- NTA LORO- HE JT- CHI LENE UNE DTAL REG E/L) (UC	ADIEN HE EXA- CHI LORO- WA FLTRD UNF COVER REC E/L) (UG	ORO- (1, TER LTRD PYF OVER TO	DENO 2,3- CD) RENE DTAL 6/L) 4403)
OCT 24. APR	<5	5.00 <5	.00 <30	.0 <5	.00 <5	.00 <5	5.00 <5	5.00 <5	5.00 <5	5.00 <10	0.0
27.											

# 02096960 HAW RIVER NEAR BYNUM, NC--Continued

# WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	ISO- PHORONE TOTAL (UG/L) (34408)	N- NITRO- SODI-N- PROPYL- AMINE TOTAL (UG/L) (34428)	N-NITRO -SODI- PHENY- LAMINE TOTAL (UG/L) (34433)	NAPHTH- ALENE TOTAL (UG/L) (34696)	NITRO-	N-NITRO -SODI- METHY- LAMINE TOTAL (UG/L) (34438)	PENTA- CHLORO- PHENOL TOTAL (UG/L) (39032)	PHENAN- THRENE TOTAL (UG/L) (34461)	PHENOL (C6H- 5OH) TOTAL (UG/L) (34694)	PYRENE TOTAL (UG/L) (34469)
OCT 24 APR 27	<5.00 	<5.00 	<5.00 	<5.00 	<5.00 	<5.00 	<30.0	<5.00 	<5.00 	<5.00 
DATE	BENZENE 1,2,4- TRI- CHLORO- WAT UNF REC (UG/L) (34551)	BENZENE 1,3-DI- CHLORO- WATER UNFLTRD REC (UG/L) (34566)	REC (UG/L)		ETHER UNFLTRD RECOVER (UG/L)	BIS (2- CHLORO- ISO- PROPYL) ETHER TOTAL (UG/L) (34283)	2- CHLORO- NAPH- THALENE TOTAL (UG/L) (34581)	2- CHLORO- PHENOL TOTAL (UG/L) (34586)	BIS(2- ETHYL HEXYL) PHTHAL- ATE TOTAL (UG/L) (39100)	2- NITRO- PHENOL TOTAL (UG/L) (34591)
OCT 24 APR 27	<5.00 	<5.00 	<5.00 	<5.00 	<5.00 	<5.00 	<5.00 	<5.00 	<5.00 	<5.00 
DATE	2,4-DI- CHLORO- PHENOL TOTAL (UG/L) (34601)	2,4-DI- METHYL- PHENOL TOTAL (UG/L) (34606)	2,4,- DI- NITRO- PHENOL TOTAL (UG/L) (34616)	2,4-DI- NITRO- TOLUENE TOTAL (UG/L) (34611)	2,4,6- TRI- CHLORO- PHENOL TOTAL (UG/L) (34621)	2,6-DI- NITRO- TOLUENE TOTAL (UG/L) (34626)	3,3'- DI- CHLORO- BENZI- DINE TOTAL (UG/L) (34631)	4- BROMO- PHENYL PHENYL ETHER TOTAL (UG/L) (34636)	4- CHLORO- PHENYL PHENYL ETHER TOTAL (UG/L) (34641)	4- NITRO- PHENOL TOTAL (UG/L) (34646)
OCT 24 APR 27	<5.00 	<5.00 	<20.0	<5.00 	<20.0	<5.00 	<20.0	<5.00 	<5.00 	<30.0

### 02096960 HAW RIVER NEAR BYNUM, NC--Continued

### WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1982-86, 1989 to current year.

PERIOD OF DAILY RECORD .--

SPECIFIC CONDUCTANCE: October 1981 to September 1984.

WATER TEMPERATURE: October 1981 to September 1984.

INSTRUMENTATION .-- Water-quality monitor from October 1981 to September 1984.

REMARKS .-- Station operated to define water quality as part of a six-county regional surface-water quality assessment.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 514 microsiemens, Sept. 19, 1983; minimum, 46 microsiemens, Mar. 21, 1983.

WATER TEMPERATURE: Maximum, 35.0°C, July 21, 1983; minimum, 0.0°C, on several days during winter months in water years 1982 and 1984.

### WATER-QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	TIME	DIS- CHARGE, IN CUBIC FEET PER SECOND (00060)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	BENZENE TOTAL (UG/L) (34030)	BROMO- FORM TOTAL (UG/L) (32104)
AUG 27	1230	328	380	7.7	26.0	761	8.6	106	<0.400	<0.400
DATE	CARBON- TETRA- CHLO- RIDE TOTAL (UG/L) (32102)	CHLORO- BENZENE TOTAL (UG/L) (34301)	CHLORO- DI- BROMO- METHANE TOTAL (UG/L) (32105)	CHLORO- ETHANE TOTAL (UG/L) (34311)	CHLORO- FORM TOTAL (UG/L) (32106)	METHYL- CHLO- RIDE TOTAL (UG/L) (34418)	CIS 1,3-DI- CHLORO- PROPENE TOTAL (UG/L) (34704)	DI- CHLORO- BROMO- METHANE TOTAL (UG/L) (32101)	DI- CHLORO- DI- FLUORO- METHANE TOTAL (UG/L) (34668)	ETHYL- BENZENE TOTAL (UG/L) (34371)
AUG 27	<0.400	<0.400	<0.400	<0.400	<0.400	<0.400	<0.400	<0.400	<0.400	<0.400
DATE	METHYL- BROMIDE TOTAL (UG/L) (34413)	METHYL- ENE CHLO- RIDE TOTAL (UG/L) (34423)	STYRENE TOTAL (UG/L) (77128)	TETRA- CHLORO- ETHYL- ENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	TRANS- 1,3-DI- CHLORO- PROPENE TOTAL (UG/L) (34699)	TRI- CHLORO- ETHYL- ENE TOTAL (UG/L) (39180)	TRI- CHLORO- FLUORO- METHANE TOTAL (UG/L) (34488)	VINYL CHLO- RIDE TOTAL (UG/L) (39175)	1,1-DI- CHLORO- ETHYL- ENE TOTAL (UG/L) (34501)
AUG 27	<0.400	<0.400	<0.400	<0.400	<0.400	<0.400	<0.400	<0.400	<0.400	<0.400

# 02096960 HAW RIVER NEAR BYNUM, NC--Continued

# WATER-QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

				ETHANE,	BENZENE					ETHANE
		1,1,1-	1,1,2-	1,1,2,2	O-DI-			1,2-	HEXA-	HEXA-
	1,1-DI-	TRI-	TRI-	TETRA-	CHLORO-	1,2-DI-	1,2-DI-	TRANSDI	CHLORO-	CHLORO-
	CHLORO-	CHLORO-	CHLORO-	CHLORO-	WATER	CHLORO-	CHLORO-	CHLORO-	BUT-	WATER
	ETHANE	ETHANE	ETHANE	WAT UNF	UNFLTRD	ETHANE	PROPANE	ETHENE	ADIENE	UNFLTRD
DATE	TOTAL	TOTAL	TOTAL	REC	REC	TOTAL	TOTAL	TOTAL	TOTAL	RECOVER
	(UG/L)									
	(34496)	(34506)	(34511)	(34516)	(34536)	(32103)	(34541)	(34546)	(39702)	(34396)
AUG										
27	<0.400	<0.400	<0.400	<0.400	<0.400	<0.400	<0.400	<0.400	<0.400	<0.400

		BENZENE	BENZENE	BENZENE	1,2-			DEETHYL	
		1,2,4-	1,3-DI-	1,4-DI-	DIBROMO	SI-	PRO-	ATRA-	CYANA-
		TRI-	CHLORO-	CHLORO-	ETHANE	MAZINE,	METON,	ZINE,	ZINE,
	NAPHTH-	CHLORO-	WATER	WATER	WATER	WATER,	WATER,	WATER,	WATER,
	ALENE	WAT UNF	UNFLTRD	UNFLTRD	WHOLE	DISS,	DISS,	DISS,	DISS,
DATE	TOTAL	REC	REC	REC	TOTAL	REC	REC	REC	REC
	(UG/L)								
	(34696)	(34551)	(34566)	(34571)	(77651)	(04035)	(04037)	(04040)	(04041)
7110									
AUG 27	<0.400	<0.400	<0.400	<0.400	<0.400	0.040	0.043	E0.006	<0.004

#### 02096960 HAW RIVER NEAR BYNUM, NC--Continued

#### WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1982-86, 1989-1996, 1998.

PERIOD OF DAILY RECORD. --

SPECIFIC CONDUCTANCE: October 1981 to September 1984.

WATER TEMPERATURE: October 1981 to September 1984.

INSTRUMENTATION. -- Water-quality monitor from October 1981 to September 1984.

REMARKS.--Station operated to define water quality as part of a six-county regional surface-water quality assessment.

EXTREMES FOR PERIOD OF DAILY RECORD. --

SPECIFIC CONDUCTANCE: Maximum, 514 microsiemens, Sept. 19, 1983; minimum, 46 microsiemens, March 21, 1983.

WATER TEMPERATURE: Maximum, 35.0°C, July 21, 1983; minimum, 0.0°C, on several days during winter months in water years 1982 and 1984

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME		CIFIC CON- DUCT- ANCE (US/CM)	ARD UNITS)	ATURE WATER (DEG C)	INUM- COBALT UNITS)	(MM OF HG)	OXYGEN,	CENT SATUR- ATION)	(MG/L AS CACO3)
FEB 05	1215	20200	64	7.2	6.0	220	741	12.2	101	19
DATE	(MG/L AS CA)	(MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM PERCENT	RATIO	DIS- SOLVED (MG/L AS K)	BONATE IT-FLD (MG/L AS HCO3)	IT-FLD (MG/L -	DIS- SOLVED (MG/L AS SO4)	DIS- SOLVED (MG/L AS CL)
FEB 05	4.5	2.0	3.6	27	. 4	1.9	16	13	7.3	3.6
DATE	RIDE, DIS- SOLVED (MG/L AS F)	DIS- SOLVED (MG/L AS SIO2)	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	GEN, NITRITE DIS- SOLVED (MG/L AS N)	DIS- SOLVED (MG/L AS N)	GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	MONIA + ORGANIC TOTAL (MG/L	GEN, TOTAL (MG/L AS N)	TOTAL (MG/L AS P)
FEB 05	.11	7.1	55	.006	.277	.064	.84	.90	1.2	.244
DATE	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	ERABLE (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	TOTAL (UG/L AS CD)	TOTAL RECOV- ERABLE (UG/L AS CR)	TOTAL RECOV- ERABLE (UG/L AS CO)	ERABLE (UG/L AS CU)	TOTAL RECOV- ERABLE (UG/L	TOTAL RECOV- ERABLE (UG/L AS PB)	ERABLE (UG/L AS MN)
FEB 05	.052	2000	<1	<1	7	3	5	3100	5	320
DA1 FEB	TOT REC ERA CE (UG AS (719	URY DEN AL TOT OV- REC BLE ERA /L (UG HG) AS 00) (010	/L (UG MO) AS 62) (010	AL SEL OV- NIU BLE TOT //L (UG NI) AS 67) (011	E- TOT M, REC CAL ERA S/L (UG SE) AS 47) (010	OV- REC BLE ERA JL (UG AG) AS 77) (010	CAL CARE COV- ORGA BLE TOT C/L (MG ZN) AS 92) (006	SON, SEE MNIC MEN CAL SUS S/L PEN C) (MG	T, CHAR - SU DED PEN /L) (T/D 54) (801	T, S- GE, S- DED AY) 55)
05	<.1	0 <1	6	<1	<1	. 30	12	18	1 989	U